

# ELECTRON SCATTERING AND NEUTRINO PHYSICS: A SNOWMASS WHITE PAPER

NF06 CONTRIBUTED PAPER TO SNOWMASS 2021

## This Workshop:

### Low Energy Neutrinos and Electron Scattering

Parity-Violating Electron  
Scattering (PVES)  
*[Polarized Electron Beams]*



Coherent Elastic Neutrino-  
Nucleus Scattering (CEvNS)

1 MeV 100 MeV

Low Energy Inelastic Neutrino  
- Nucleus Scattering  
(Supernova/Solar/piDAR/KDAR  
Neutrinos)



Low Energy Electron-  
Nucleus Scattering

## Previous Workshop: Electron Scattering Workshop

<https://indico.fnal.gov/event/46620/>

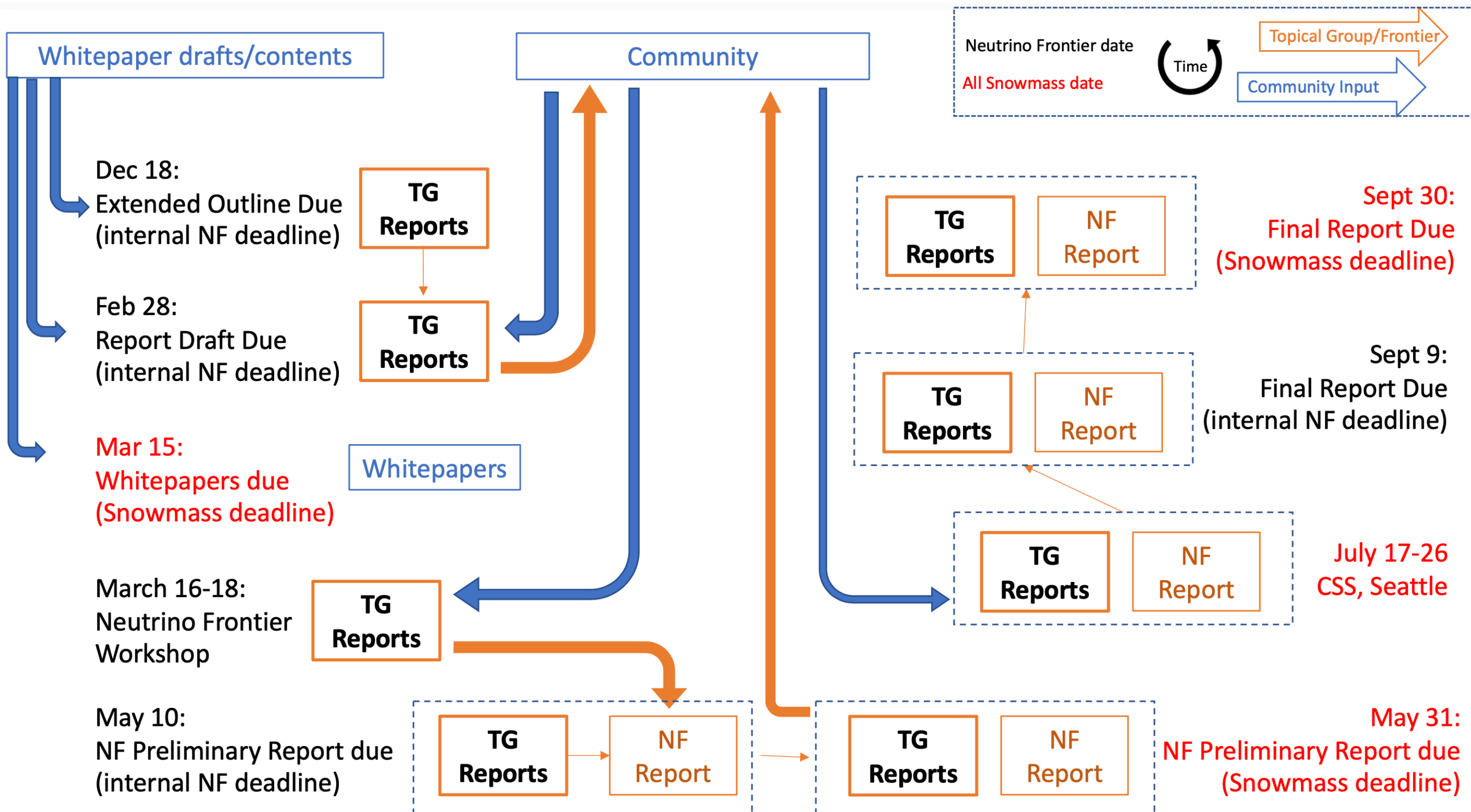
Electron-Nucleus Scattering Physics



Accelerator Based Neutrino Oscillation Physics

1 GeV 10 GeV  $E_\nu$

# Snowmass Timeline



*Courtesy NF conveners*

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### 9 Acknowledgements

**This Workshop**

◆ Discussion/feedback on the table of contents.

◆ Everyone is invited to contribute, solicited names.